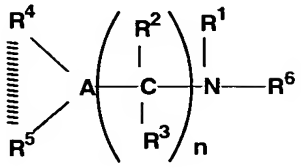
CLAIMS

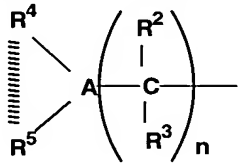
1. A compound represented by formula (I):



(I)

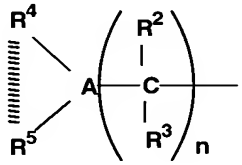
wherein A represents CH or N;

R^1 represents hydrogen and R^6 represents $-CH_2C(R^7)(OH)CH_2OR^8$; or

R^1 represents  and R^6 represents $-CH_2C(R^7)(OH)CH_2OR^8$; or

R^1 represents $-CH_2C(R^7)(OH)CH_2OR^8$ and R^6 represents an alkyl or alkenyl group having C_4-C_{36} carbon atoms; or

R^1 represents hydrogen and R^6 represents $-CH_2C(R^7)(OH)R^8$; or

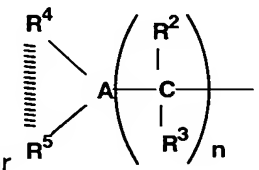
R^1 represents  and R^6 represents $-CH_2C(R^7)(OH)R^8$; or

R^1 represents $-CH_2C(R^7)(OH)R^8$ and R^6 represents an alkyl or alkenyl group having C_4-C_{36} carbon atoms;

R^2 and R^3 each represent hydrogen or an alkyl or alkenyl group having C_1-C_6 carbon atoms;

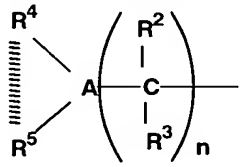
R^4 and R^5 each represent an alkyl group having C_1-C_6 carbon atoms when A represents N; or

R^4 and R^5 together represent a C_2-C_5 alkylene group when A represents N; or

R^4 and R^5 together represent a C_2-C_5 alkylene group containing NR^{10} or NR^{11} when A is CH or N, where R^{10} is hydrogen or an alkyl group having C_1-C_4 carbon atoms and R^{11} is an alkyl group having C_1-C_4 carbon atoms or  ;

R^7 represents hydrogen or an alkyl or alkenyl group having C_1-C_5 carbon atoms;
R^8 represents an alkyl or alkenyl group having C_4-C_{36} carbon atoms or $-COR^9$, where R^9 represents an alkyl or alkenyl group having C_3-C_{35} carbon atoms; and
n is an integer from 1 to 3, and where the compound is acid-blocked.

2. The compound of claim 1, wherein R^1 is hydrogen or



3. The compound of claim 1, wherein R^2 and R^3 are hydrogen.

4. The compound of claim 1, wherein R^4 and R^5 are alkyl groups having C_1-C_6 carbon atoms when A represents N.

5. The compound of claim 1, wherein R^4 and R^5 together represent $-CH_2CH_2N(CH_3)CH_2-$.

6. The compound of claim 1, wherein R^7 is hydrogen.

7. The compound of claim 1, wherein R^8 is an alkyl or alkenyl group having C_4-C_{22} carbon atoms or $-COR^9$.

8. The compound of claim 1, wherein R^9 is an alkyl or alkenyl group having C_3-C_{22} carbon atoms.

9. The compound of claim 1, wherein n is 2 or 3.

10. The compound of claim 1, wherein the compound is selected from the group consisting of N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octadecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octadecyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexadecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexadecyl ether) amine, N,N-bis-(3-

dimethylaminopropyl)-N-(2-hydroxypropyl-tetradecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-tetradecyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-dodecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-dodecyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-decyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-decyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-2-ethylhexyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-2-ethylhexyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hexanol) amine, N-(3-dimethylaminopropyl)-N-(2-hexanol) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-octanol) amine, N-(3-dimethylaminopropyl)-N-(2-octanol) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-decanol) amine, N-(3-dimethylaminopropyl)-N-(2-decanol) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-dodecanol) amine, N-(3-dimethylaminopropyl)-N-(2-dodecanol) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-tetradecanol) amine, N-(3-dimethylaminopropyl)-N-(2-tetradecanol) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hexadecanol) amine, N-(3-dimethylaminopropyl)-N-(2-hexadecanol) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-octadecanol) amine, N-(3-dimethylaminopropyl)-N-(2-octadecanol) amine; N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl butyl ether) amine; and N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-neodecanoic ester) amine.

11. The compound of claim 10, wherein the compound is selected from the group consisting of N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octadecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octadecyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexadecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexadecyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-tetradecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-tetradecyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-dodecyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-dodecyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-decyl ether) amine, N-(3-

dimethylaminopropyl)-N-(2-hydroxypropyl-decyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-octyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-2-ethylhexyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-2-ethylhexyl ether) amine, N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexyl ether) amine, N-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-hexyl ether) amine; N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl butyl ether) amine; and N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-neodecanoic ester) amine.

12. The compound of claim 11, wherein the compound is N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl butyl ether) amine.

13. The compound of claim 11, wherein the compound is N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-2-ethylhexyl ether) amine.

14. The compound of claim 11, wherein the compound is N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-tetradecyl ether) amine.

15. The compound of claim 11, wherein the compound is N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-dodecyl ether) amine.

16. The compound of claim 11, wherein the compound is N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-neodecanoic ester) amine.

17. The compound of claim 11, wherein the compound is a mixture of N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-tetradecyl ether) amine and N,N-bis-(3-dimethylaminopropyl)-N-(2-hydroxypropyl-dodecyl ether) amine.

18. The compound of Claim 1 in which the composition is acid-blocked with a carboxylic acid.

19. The compound of Claim 18 in which the carboxylic acid is formic acid, acetic acid, 2-ethyl-hexanoic acid, gluconic acid, or N-(2-hydroxyethyl)-iminodiacetic acid.